


```

1 REGISTRATION NUMBER: 31,665
2 REFERENCE/DOCKET NUMBER: 5405.38a
3 TELECOMMUNICATION INFORMATION:
4 TELEPHONE: 919-881-3140
5 TELEFAX: 919-881-3175
6 INFORMATION FOR SEQ ID NO: 8:
7 SEQUENCE CHARACTERISTICS:
8 LENGTH: 2415 base pairs
9 TYPE: nucleic acid
10 STRANDEDNESS: single
11 TOPOLOGY: linear
12 MOLECULE TYPE: cDNA
13 FEATURE:
14 NAME/KEY: CDS
15 LOCATION: 116..2005
16 OS-07-959-943-8

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Query Match	32.8%;	Score 579.4;	DB 1;	Length 2415;
Best Local Similarity	60.0%;	Pred. No. 1.3e-140;		
Matches 983; Conservative	0;	Mismatches 651;	Indels 3;	Gaps 1

	86	TGAGTGGCTTACCCGGGCGGACGGCGAGACCTGGGCGCAAAAGGACAGATTCCG	145
	.Db		
	324	TGAGTGGCTGAGATTCCGCCAAGGGAGCGGAGACCTGGGCGAAAGATGATTTCTCC	383
QY	146	TGCGGGTGGTGGATTGCGATGGATCTGTGTAACTGTGGCGATTCCCTACATCTGTT	205
Db	384	TGTCGTCATTTGGCTATTGGCGTGGACCTGGGCAACATCTGGCGGTTTCCTACATATGCT	443
QY	206	ACCAGAATGGAAGCGGGTGCCTTCTGATCCGTACTGGGTTATGCTGCTGTTGGCGGGC	265
Db	444	ACCAGAATGGGGAGGGGCCCTTCTCTCCCTTATACCATCATGAGCCATTTTTCGGGGGA	503
QY	266	TGCGGCTGTCTTCTGGAACTGGCGCGGGGCGACAGTACACCGGCGGGCGTCCACTGC	325
Db	504	TCCCGCTCTTTTACATGAGCTGCGACTGGGCGAGTACACCGGAAGCGGTGCATTTTCA	563
QY	326	TCGTGAAACGGATTCGCCCGCGCTTAAAGGTGTGGGCTATGACATCTGCATGTATCGACA	385
Db	564	TATGAGAGGAAGATCTGCCCATTTTCAAAAGCATTTGGTTACGCCATCTGCATTCGCTT	623
QY	386	TCTACATGGGCACTACTACAAACAGTATCGGATGGGCGGTGTATTACTGATCGTT	445
Db	624	TTTACATGGCTCTCTACTACAAACCATCATAGGCTGGCGCTTACTACTCTCTCTCT	683
QY	446	CTTCGCGGTCTATAACTCTGTGCGCATGAGCAGGTGGACAGCAAGTGAACACGCG	505
Db	684	CCCTCAGGAGACGGCTGCCCTGGACACAGCTGCACAGAACTCTTGAAACCTTGCAACTGCA	743
Db	506	CGCTGTGCAGCGCGGATCACTCACCTGAGATTACTTACTTCTTACACCGGCGAAG	565
QY	566	AGTTCTTCGAACGTAAATGTATTGGACGACCAAGTCTACGCGCTGGATGACATGGGC	625
Db	804	AGTTCTCTCTTGGCGCATGTCTCTGCAGATCCACCAAGTCTAAAGGACTCCAGAACCTGGGCA	863
QY	626	CGATCAAGCGGTGCTGGGCTGTGTGTGTGCGGGGTCTTGTCTGCTACTTCTCTCT	685
Db	864	CCATCTACTGGCACTGACTCTCTGCATCGTCTATCTTACCGTAACTACTTTTAAACA	923
QY	686	TGTGGAAGAGAGTAGAGAGTCTGGCAAGTGTGTGGGTAGACAGTCTGGCCCGGTACG	745
Db	924	TCTGGAAGAGGCTCAAAACATCTGGCAAGTGTGTGGGTAGACCACTTCCCATRCA	983
QY	746	TGTTGCTGTCTGATTTCTGCTGGCGAAGGCGTCAACGTTCCAGAGCGACGGAGGCGATAC	805
Db	984	TTTGTCTCTCTGTCTGCTGCTGGTGAAGGGGCGACCTTCTCGAGACCTGGAGAGGGGTGCG	1043
QY	806	GCTACTACTTACCCCGAGGTGGACAAATTCGAAAACCTTAAGTATGATTTGACGGG	865
Db	1044	TCTCTACTTTGAACCACATGGGAGAAACTTTTGGACACAGGGGTGTGGGTATGATGCGG	1103

OY	866	TATCCAGATTTTCTTCGCTGGCTCCCGGGTTCGGAACCCCTACCTAGCGCCTCCACAGT	925
Db	1104	CCGCTCGAATTTTCTCTCTCTTGGCCCGGGCTTTGGGGTTCCTCGGCTTTTGGTAGCT	1163
OY	926	ACAACAAGTTCACACAACTGCTACAGAGGACGGCGCTCATTCACTTTCTTATCAACGCT	985
Db	1164	ACAACAAGTTCAACAACAAGCTTTACCAAGAATGCCCTGGTGTACCAAGTGGTGAACCTGA	1223
OY	986	TGACCAGCTTCCTTGCTGCTGTTTGGTCATTTTCTCGGTTTGGGTACATGGCCAGCTTC	1045
Db	1224	TGACAAGCTTCGTCTGGCTTCCGTCAATCTTTCACAGGGGTCTGGGTACATGGCCGAATGA	1283
OY	1046	AGACAAGAGCATGAGAGAGGTGGC-- -CTCGAAGGCCCTCGAGCTGGTGTTCATCGT	1102
Db	1284	GGAAATGAAGATGTCTCAGAGGTGGCCCAAGAAGCGAGGCCCAAGCCTCTCTTCAATCAGT	1343
OY	1103	ACCCCGAGGCATGCGCCACCATGACGGGCTCCGTGTTCTGGGCCATCATCTTCTCTCA	1162
Db	1344	ATGCAAGAGCCAAATGAGCCAAATGCCAGCATCAGCTTCTTGGCCATCATCTTCTCTCTCA	1403
OY	1163	TGCTATTATACCTGGAGACTTGACAGTACTTTTGGAGGCTTGGAGCGTCAAGCCAGGCTC	1222
Db	1404	TGTTATATCAGCCTGGGATTTGACACGACAGTTCCGAGGCTTGGAAAGGTGTATCAACAGT	1463
OY	1223	TTTTCGACGAATTCCTCGAGTGTTAGGACACATCCGAGATATTTTGGCTGTACTGC	1282
Db	1464	TGCTGGATGACTTCCCTCACATCTGGGGCAAGCCAGAGAAATGGTGTGCTCATCTGTGG	1523
OY	1283	TTTGCTTCATCTATATTTTGGCCTCGCCACACACATACGGGTGTATTAATCCTAG	1342
Db	1524	TCATCAGCTGGTCTTGGGATCCCTGCTCACTAGCTCAGGAGGGGCACTACCTGGTGA	1583
OY	1343	ACCTACTCAATGTATAGGCCCTCGATTTGGCGATTCATTTCTGATTTTCTGAGGCTG	1402
Db	1584	CTGTGCTGAGAGATGATCCACAGGGGGCCAGCAGTAGTCACCGTGGCCCTCATGAGGCCG	1643
OY	1403	CCGGCGTGTGCTGGGTGTATGGCGCTCGACCGGTTCTCTGAAGATGTAGAACCATCTGTG	1462
Db	1644	TCCCGCTGTCTGGTCTATGGAATCACTCAGTTCTCGAGGAATGAAGAGATGGTGG	1703
OY	1463	GGCACACCCCTGATGTTCTGAGAGACCTTTGGTCTTACATATGCCGATCTTTCG	1522
Db	1704	GCTTCAGCCCGGAGATGTTTGGAGAGATCTGCTGGGTGCCATCAGCCCTCTGTTTCTCC	1763
OY	1523	TGTTGCTGTTGCTGTTCTCCGTTCTGGCACAGAGAGATGCTGGCGGGGAATACACT	1582
Db	1764	TGTTTCATCATTTTGCAGTTTCTGATGAGCCCAACCCCAAGCTACGGCTTTTCCAAATCACT	1823
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Db	1824	ATCCCACTGGAGATCTCTTTGGGCTTACTCATTAAGGATGTCTCCGTCTCTGCAATCC	1883
OY	1643	CTCTTATCATTTATACAACTGCTCATACCTGGCATTGGCAATTCGATCAACCGCATCAGA	1702
Db	1884	CTACCTATATCATTTATGCGCTGATACAGACATCCGGGACACTTAAGAGCGCATTTATTA	1943
OY	1703	CAATTCGAACGTCCGGA 1719	
Db	1944	AAAGTATCACTTCGTGA 1960	

RESULT 3
 US-07-782-298-1
 : Sequence 1, Application US/07782298
 : Patent No. 5552308
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Hoffman, Beth J.
 : APPLICANT: Mezey, Eva
 : APPLICANT: Brownstein, Michael J.
 : TITLE OF INVENTION: cDNA Clone of a Rat Serotonin
 : TITLE OF INVENTION: Transporter and Protein Encoded Thereby
 : NUMBER OF SEQUENCES: 5
 : CORRESPONDENCE ADDRESS:
 :

```

1 ADDRESS: Birch, Stewart, Kolasch & Birch
2 STREET: P.O. Box 747
3 CITY: Falls Church
4 STATE: Virginia
5 COUNTRY: USA
6 ZIP: 22040-0747
7
8 COMPUTER READABLE FORM:
9 MEDIUM TYPE: Floppy disk
10 OPERATING SYSTEM: IBM PC compatible
11 SOFTWARE: Patentin Release #1.0, Version #1.25
12 CURRENT APPLICATION DATA:
13 APPLICATION NUMBER: US/07/782,298
14 FILING DATE: October 24, 1991
15 CLASSIFICATION: 435
16 ATTORNEY/AGENT INFORMATION:
17 NAME: Gerald M. Murphy, Jr.
18 REGISTRATION NUMBER: 28,977
19 TELECOMMUNICATION INFORMATION:
20 TELEPHONE: 703-205-8000
21 TELEFAX: 703-205-8050
22 INFORMATION FOR SEQ ID NO: 1:
23 SEQUENCE CHARACTERISTICS:
24 LENGTH: 2756 base pairs
25 TYPE: nucleic acid
26 STRANDEDNESS: double
27 TOPOLOGY: linear
28 MOLECULE TYPE: cDNA
29 HYPOTHETICAL: NO
30 ANTI-SENSE: NO
31 ORIGINAL SOURCE:
32 ORGANISM: Rattus rattus
33 CELL TYPE: Mast Cell
34 CELL LINE: RBL 2H3
35 FEATURE:
36 NAME/KEY: CDS
37 LOCATION: 232..2190
38 OTHER INFORMATION: /function="serotonin uptake"
39 OTHER INFORMATION: /product="serotonin transporter"
40 OTHER INFORMATION: /standard_name="5HTT"
41
42 US-07-782-298-1
43
44 Query Match 31.5%; Score 555.4; DB 1; Length 2756;
45 Best Local Similarity 59.6%; Pred. NO. 2,3e-134;
46 Matches 975; Conservative 0; Mismatches 656; Indels 6; Gaps 2
47
48 QY 86 TGTGTGTCCTTACGCGCGCGCGCGAGCCGAGACCTGGCGGAGAGAGAGAGAGAGTCTCTGC 145
49 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
50 440 TGGTGCGTGAATTCGCGCAAGGGGAGCGGAGACTGGGGCAAGAAGATGGATTTCCTCC 499
51 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
52 QY 146 TGGCGGTGGTGGGATTCGCATGGATCTTGGTAACGTGTGGCGATTCCCTACATCTGT 205
53 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
54 500 TGTCCGTCATTGGCGATGCGGTGAGCCTGGGCAACATCTGGCGGCTTCTTACATATCT 559
55 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
56 QY 206 ACCAAGATGAGAGCGGTCGTTCGATCCGCTACTGCGTATGCGTATGCTGCTTTGGCGGGC 265
57 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
58 560 ACCAAGATGAGGAGGGGCGCTTCCTCCCTTATACATCATGCGCATTTTCGGGGGGA 619
59 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
60 QY 266 TGGCGCTTCTTCTGTGAACTGGCGCTGGGCCAGTACCAACCGCTCGCGCTGCTCACTC 325
61 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
62 Db 620 TCCCGCTCTTTTACATGGAGCTCGCACTGCGCAAGTACCAACCGAGGATTTTCCA 679
63 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
64 QY 326 TCTGGAAGAGATCGCCCGCGCGCTTAAAGGTGTCGCTATGCAATCGCATGATCGACCA 385
65 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
66 Db 680 TATGAGGAGACATCGCCGATTTTCAAGAGCATTTGGTTAGCCATTCGATCATCGCT 739
67 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
68 QY 386 TCTACATGGGATCTACTACAACAGATCGATGAGTGGCGGTATTTACCTGATCGCTT 445
69 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
70 Db 740 TTTCATCGGCTCTCTACTACAACACATCATAGCTGGCGCTCTACTACTCATCTCTCT 799
71 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
72 QY 446 CTCCTCGGCTATATAAAGCTCTGTGCTGCCATGAGCCAGCTGCAGACAAGATGGAACAGC 505
73 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
74 Db 800 CCTCTACAGAGCGGCTGCGCTGGAGACAGCTCACAGAACTCTCGGAACCTGGAACCTGCA 859
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[illegible]


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OY 927 CAACAAGTTCACACAACTGCTACAGGAGCGGCTCATCTCTCTATATCAATGCTT 986
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Db 1106 CAACAAGTTCACACAACTGCTACAGGAGCGGATTTGTCACACCTCATCAATGCTT 1165
OY 987 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1046
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Db 1166 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1225
OY 1047 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1106
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Db 1226 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1285
OY 1107 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1166
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1286 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1345
OY 1167 TATTACCTTGGAGCTTACAGTACTTTTGGAGCTTTTGGAGCTTACAGGCTCTTTG 1226
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Db 1346 GCTACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1405
OY 1227 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1286
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1406 GACCAAGTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1462
OY 1287 GTTCAATCTATATTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1346
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1463 GCGGACCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1522
OY 1347 ACTCAATGCTATAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1406
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Db 1523 CCGGACCAATTTGCAAGCGGCGGACGCTCATCTCTTGGAGCTCATCAAGCGCATCGG 1582
OY 1407 CGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1466
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Db 1583 AGTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1642
OY 1467 CACCCCTGATGCTTCTGAGAGACCTGTTGCTTCAATCAATGCTGCTGCTGCTGCT 1526
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1643 GCGGCGGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1702
OY 1527 GCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1586
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Db 1703 CGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1762
OY 1587 CTGATGCTATACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1646
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OY 1647 TTACATTTATCTACAACTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1679
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? ZIP: 22046-0747
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patenlin Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/07/762,132A
? FILING DATE: 19910920
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: Murphy, Gerald M.
? REGISTRATION NUMBER: 28,977
? REFERENCE/DOCKET NUMBER: 1173-340P
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 703-241-1300
? TELEFAX: 703-241-0369
? TELEX: 248345
? INFORMATION FOR SEQ ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 3404 base pairs
? TYPE: NUCLEIC ACID
? STRANDEDNESS: double
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? ORIGINAL SOURCE:
? ORGANISM: Rattus rattus
? IMMEDIATE SOURCE:
? CLONE: pDATT1
? FEATURE:
? NAME/KEY: CDS
? LOCATION: 63..1919
? FEATURE:
? NAME/KEY: polyA_site
? LOCATION: 3385
? FEATURE:
? NAME/KEY: 5'UTR
? LOCATION: 6..62
? FEATURE:
? NAME/KEY: 3'UTR
? LOCATION: 1920..3384
? US-07-762-132A-1

Query Match 26.28; Score 462.8; DB 1; Length 3404;
Best Local Similarity 57.58; Pred. No. 2.3e-110;
Matches 915; Conservative 0; Mismatches 657; Indels 18; Gaps 4;

OY 102 GCGCGGCGGACGCGGAGACCTGCGGCGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGG 161
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Db 230 GCGTCAAGACGGGAGACCTGGAAGCAAGAAATTGATTCTGCTATCATCATCGGCTT 289
OY 162 GCGAGTGGATCTTGTAAGCTGCTGCGGATTCCTTACATCTGTTACCAAGAGGCGG 221
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Db 290 TGCCTGTGAGCTTGGCCATGCTGAGGTTTCCCTACCTGCTGCAAAAATGATGAGG 349
OY 222 TGCCTTCCGATCCCGTACTGCGTTATGCTGCTGTTGGGCGGCTGCGCTGCTTCCCT 281
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Db 350 TGCCTTCCGATCCCGTACTGCGTTATGCTGCTGTTATGCTGGAATGCGCTTCTTACAT 409
OY 282 GGAATGCGGCTGCGGCGGAGTACCAAGCGCTGCGGCTGCGCTGCTGCTGCTGGAAGAGATTCG 341
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Db 410 GGAAGTGGCTGCGGAGAGTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 466
OY 342 CCGCGGCTTAAAGGTGTGCGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 401
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Db 467 TCCCTGCTGTAAGAGTGTGCGCTTCACTGTTATCTCTATCTCTTCTACCTGCGCTTCTT 526
OY 402 CTACACAGCATATGAGGAGGCGGCTGTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 461
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Db 527 CTACAAATGATATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 586
OY 462 CTCTGTGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 520
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```

RESULT 6
 ; Sequence 1, Application US/07762132A
 ; Patent No. 5312734
 ; GENERAL INFORMATION:
 ; APPLICANT: uhl, George R
 ; APPLICANT: Kumar, Michael J
 ; APPLICANT: Shimada, Shiochi
 ; APPLICANT: Kitayama, Shigeo
 ; APPLICANT: Patel, Amrat
 ; APPLICANT: Lin, Chien-Liang
 ; TITLE OF INVENTION: "cDNA Encoding A Dopamine
 ; TRANSPORTER and Protein Encoded Thereby"
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Birch, Stewart, Kolasch & Birch
 ; STREET: 301 N. Washington St.
 ; CITY: Falls Church
 ; STATE: Virginia
 ; COUNTRY: USA

OY	397	ATGACATCAACACAGATCATATGAGATGGGCGGTG-----ATTACTGATGGCT	444
Db	433	GTCATCTACATCATCATCTCTGGCGTGGGCATCTTCTACTTAAGCACTGCTTACACACC	492
OY	445	TCCTCGCGGTATPAACTCTGTCTGTCCATGAGACCAGCTCCGCAACGAGTGGAAACG	504
Db	493	GAGCTCCCTGGGCGCACCTGTGGGCATGAGGAAACAGAGAAATGCTGGAATTCACG	552
OY	505	CCGCTGTGCACGGCGGTACCTCAACCTCAGACTAATCCTACTCTTCTACACCGGCGAG	564
Db	553	AAGCTGAACCTTCAGCACTACAGTCATGTGTCCTGCGAAGACCACTCCCGGTCTATG	612
OY	565	GAGTTCTTTCGACGTAATGTATTGGAGCAGCAAGTCTTAACGGCCTGGATGACATGGGG	624
Db	613	GAGTTCTTGGAAACGCGGGCTTGG-----CTATATCTGATGGGATTTGAAACATCGGG	666
OY	625	CCGATCAAGCCGTGGCTGTCTGTGTGTTCGGGGCTTGTGTCTCTGTACTTCTCC	684
OY	667	AACCTCCGATGGAGGTGGCACTGTGTCTCTGGCGGGCTTGGACCATCTGTACTTCTGC	726
OY	685	TTGTGGAAGAGTCAGAGATGTGTGGCAGGTGGTGTGGAGACGCTGTGGCCCGTAC	744
Db	727	ATCTGGAAGGGTACGGAATCAACATGGAAGGTCTGTATGTCTACATGCACTTCCCTTAC	786
OY	745	GTCGTGCTGTGATTTCTGCTGGCGAGAGGCTCAGCGCTTCCAGAGCAGCGGAGGCAT	804
Db	787	ATCATGTGCGTGAATCTCTCTCATCCGAGGGGTCAAGTTGGCGGGTCTCCGGAAGGCATC	846
OY	805	CGCATCTACCTTAAACCCGAGTGGGACAAATTTGGAAAACCTPAAAGTTTGGATTGAGCGG	864
Db	847	AAGTTCTTACCTGTACCCGTACCTCCCGGCTCTGTATCCACAGATGTGGGTGATGTCT	906
OY	865	GCATCCAGATTTTCTCTGTGCTGGTCCGGGTTGGAAACCTTACGTGGCGCTTCCAGC	924
Db	907	GGGAGCGCATCTTTTCTCTATGACCATCTGCGGTGGCTCCGTGCGCTGTGGGAGT	966
OY	925	TACAAACAGTTTCAACAAACATGTGTACAGGGAGCGGCTCATCTTCTTATCAACATGC	984
Db	967	TACACAAACTTAAACAAACATGCTCTACAGGACGTGTATTATGCTGTGCTGTGACAGT	1028
OY	985	TTGACCACTTCTCTGTGTTTGTGTCTATTTTCTTCGATTGTTGGGTACATGGCCACGTT	1044
Db	1027	GGCACACACTTCTGTGGCTGGGTTTGTCTATTTCTACAGCTGTGGGCTTCATGGCGAGAG	1086
OY	1045	CAGAAACAGACATCGAGAGGATTTGGCTCGAAGGCCCTGCACTGTGTATGTGTATC	1104
Db	1087	CAGGCGGCTTATTTCTGAGGTGGCAGAAATCAGTCTCTGACATGGCTTTCATGGCCATC	1146
OY	1105	CCCGAGGCCATCGCACCATCAGCGGCTCCGTGTTCTGGGCAATCATCTTCTCTCATG	1164
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OY	1165	CTTATTTACCTTGGGACTTGGACAGTACTTGTGGAGTCTTGGAGCACTCACACGCGCTTT	1224
Db	1207	CTCATCTTCCCGGGCTGTGGACAGTCAAGTTTGTGTGTGGAGACCTTGTGACAGCCGTG	1266
OY	1225	TGCGAGCAATTCGCGAGGT-----AAGCAGACAATGCCAGAAATTTGTGGCTGTA	1278
Db	1267	GTTGACATGTACCCCAAGGCTTCTCCGGCGGGGCTACCGGCGAGAACTGCTATCTGTGGC	1326
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Db	1327	CTGTTCATATGTCTGTATTATTTCTTAGCGCTGTGTATGTGTGACAGAGGAGCATTTACATT	1386
OY	1339	GTAACACTTACTCAATGTGTATGGCC---TGGATTGGCGATTCTATTCGTGTGTATTTGCT	1395
Db	1387	TTTCAGGCTTTTTCATCTATACGCGCGCAGTGGCATGTGCTCTTCTGTGGCCATCTTT	1446
OY	1396	GAGCTGTGCGGCTGTGCTGGTGTATGTATGGCTTCACCGGTTCTGTGAAGATGTGAGGACC	1455
Db	1447	GAGTGTGTCTCATTCGCTGGGTGTATGGAAAGTAAACAGTTTCTATGACAAATATTGAGAC	1506

Query	Best Local Similarity	22.3%	Score 393.4	DB 5	Length 1938
1456	ATGCTGGGGGACACACCCCTGGATGGTCTCGGAGGACACCTGGTCTTACATCAGTCCCGTA	55.2%	Pred. No. 1.7e-92		1515
1507	ATGATGTCGATACCGGGCCACTCTCACTATCAATGATGGTCTGGAAGATTGTGACCCCTGGG				1566
1516	TTCTTGCTGATGCTGTTCGTGTTCTCCGTTCTGGCACACGAGAGAT--GCTTGGGGGG				1572
1567	ATCTGTGGGGGACATCTTCATCTCTTCTGTGTCAGATCAAGCGGCTCAAGTACACAT				1626
1573	GAAATACCTATCCCTCATGCTATATCACCGTACGGTGGGTGATGACCGGACACCGCTC				1632
1627	GTGACACATATATCCCTGCTGGGGCTAGGGCATTTGGCTGGCTGACATGGCTGTGCTCATG				1686
1633	TCGTCATCTCTCTTACATATATCACAACCTGCTCACTACCTCTGCA				1681
1687	CTGTGATCCCGCTCTGTGATCTTATCATCAAGCTGTGGAAGACAGAGGCA				1735
Db					
Query					
1516	TTCTTGCTGATGCTGTTCGTGTTCTCCGTTCTGGCACACGAGAGAT--GCTTGGGGGG				1572
1567	ATCTGTGGGGGACATCTTCATCTCTTCTGTGTCAGATCAAGCGGCTCAAGTACACAT				1626
1573	GAAATACCTATCCCTCATGCTATATCACCGTACGGTGGGTGATGACCGGACACCGCTC				1632
1627	GTGACACATATATCCCTGCTGGGGCTAGGGCATTTGGCTGGCTGACATGGCTGTGCTCATG				1686
1633	TCGTCATCTCTCTTACATATATCACAACCTGCTCACTACCTCTGCA				1681
1687	CTGTGATCCCGCTCTGTGATCTTATCATCAAGCTGTGGAAGACAGAGGCA				1735
Db					
Query					
1456	ATGCTGGGGGACACACCCCTGGATGGTCTCGGAGGACACCTGGTCTTACATCAGTCCCGTA				1515
1507	ATGATGTCGATACCGGGCCACTCTCACTATCAATGATGGTCTGGAAGATTGTGACCCCTGGG				1566
1516	TTCTTGCTGATGCTGTTCGTGTTCTCCGTTCTGGCACACGAGAGAT--GCTTGGGGGG				1572
1567	ATCTGTGGGGGACATCTTCATCTCTTCTGTGTCAGATCAAGCGGCTCAAGTACACAT				1626
1573	GAAATACCTATCCCTCATGCTATATCACCGTACGGTGGGTGATGACCGGACACCGCTC				1632
1627	GTGACACATATATCCCTGCTGGGGCTAGGGCATTTGGCTGGCTGACATGGCTGTGCTCATG				1686
1633	TCGTCATCTCTCTTACATATATCACAACCTGCTCACTACCTCTGCA				1681
1687	CTGTGATCCCGCTCTGTGATCTTATCATCAAGCTGTGGAAGACAGAGGCA				1735
Db					
Query					
1456	ATGCTGGGGGACACACCCCTGGATGGTCTCGGAGGACACCTGGTCTTACATCAGTCCCGTA				1515
1507	ATGATGTCGATACCGGGCCACTCTCACTATCAATGATGGTCTGGAAGATTGTGACCCCTGGG				1566
1516	TTCTTGCTGATGCTGTTCGTGTTCTCCGTTCTGGCACACGAGAGAT--GCTTGGGGGG				1572
1567	ATCTGTGGGGGACATCTTCATCTCTTCTGTGTCAGATCAAGCGGCTCAAGTACACAT				1626
1573	GAAATACCTATCCCTCATGCTATATCACCGTACGGTGGGTGATGACCGGACACCGCTC				1632
1627	GTGACACATATATCCCTGCTGGGGCTAGGGCATTTGGCTGGCTGACATGGCTGTGCTCATG				1686
1633	TCGTCATCTCTCTTACATATATCACAACCTGCTCACTACCTCTGCA				1681
1687	CTGTGATCCCGCTCTGTGATCTTATCATCAAGCTGTGGAAGACAGAGGCA				1735
Db					
Query					
1456	ATGCTGGGGGACACACCCCTGGATGGTCTCGGAGGACACCTGGTCTTACATCAGTCCCGTA				1515
1507	ATGATGTCGATACCGGGCCACTCTCACTATCAATGATGGTCTGGAAGATTGTGACCCCTGGG				1566
1516	TTCTTGCTGATGCTGTTCGTGTTCTCCGTTCTGGCACACGAGAGAT--GCTTGGGGGG				1572
1567	ATCTGTGGGGGACATCTTCATCTCTTCTGTGTCAGATCAAGCGGCTCAAGTACACAT				1626
1573	GAAATACCTATCCCTCATGCTATATCACCGTACGGTGGGTGATGACCGGACACCGCTC				1632
1627	GTGACACATATATCCCTGCTGGGGCTAGGGCATTTGGCTGGCTGACATGGCTGTGCTCATG				1686
1633	TCGTCATCTCTCTTACATATATCACAACCTGCTCACTACCTCTGCA				1681
1687	CTGTGATCCCGCTCTGTGATCTTATCATCAAGCTGTGGAAGACAGAGGCA				1735
Db					
Query					
1456	ATGCTGGGGGACACACCCCTGGATGGTCTCGGAGGACACCTGGTCTTACATCAGTCCCGTA				1515
1507	ATGATGTCGATACCGGGCCACTCTCACTATCAATGATGGTCTGGAAGATTGTGACCCCTGGG				1566
1516	TTCTTGCTGATGCTGTTCGTGTTCTCCGTTCTGGCACACGAGAGAT--GCTTGGGGGG				1572
1567	ATCTGTGGGGGACATCTTCATCTCTTCTGTGTCAGATCAAGCGGCTCAAGTACACAT				1626
1573	GAAATACCTATCCCTCATGCTATATCACCGTACGGTGGGTGATGACCGGACACCGCTC				1632
1627	GTGACACATATATCCCTGCTGGGGCTAGGGCATTTGGCTGGCTGACATGGCTGTGCTCATG				1686
1633	TCGTCATCTCTCTTACATATATCACAACCTGCTCACTACCTCTGCA				1681
1687	CTGTGATCCCGCTCTGTGATCTTATCATCAAGCTGTGGAAGACAGAGGCA				1735
Db					
Query					
1456	ATGCTGGGGGACACACCCCTGGATGGTCTCGGAGGACACCTGGTCTTACATCAGTCCCGTA				1515
1507	ATGATGTCGATACCGGGCCACTCTCACTATCAATGATGGTCTGGAAGATTGTGACCCCTGGG				1566
1516	TTCTTGCTGATGCTGTTCGTGTTCTCCGTTCTGGCACACGAGAGAT--GCTTGGGGGG				1572
1567	ATCTGTGGGGGACATCTTCATCTCTTCTGTGTCAGATCAAGCGGCTCAAGTACACAT				1626
1573	GAAATACCTATCCCTCAT				

Matches 888; Conservative 0; Mismatches 691; Indels 30; Gaps 5;

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OY 97 ACAGCGGGGGGACGGGAGACCGTGGGGAAGAGGAGTTCCTGCTGGCGTGTG 156
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Db 133 AAGCGGGTCCACAGAGCGGGTCACTGGAAACAAGAGGAGTTGTTTACAGCTAAG 192
OY 157 GGATTCGAGTGGATCTTGTAGGTGGGATTCCTTACATCTGTTTACAGAGATGA 216
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Db 193 GGAAGATCATCGGCTGGGCAAGGTGGCGCTCCCTACATGCTGTACAGAAAGCG 252
OY 217 GCGGTGGTTCCTGATCCCTACTGCTATGCTGCTGTTGGCGGCTCCGCTGTC 276
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Db 253 GGAGGGGATTCCTGATTCCTTACGTTGTTTTCATCTGCTGGAATCCCTCTTC 312
OY 277 TTCTGGAATCGGCGCTGGGCAAGTACACCGCTGCTGCTACCTCTGGAAGAG 336
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Db 313 TTCCTGGAAGAGGCTCTGGGCAAGTTCACAGAGCGGCGCATCAGCTGTGAGAGA 372
OY 337 ATGTCGCCCGGCTTAAAGTGTGGCTATGCCATCTGATGATGACATCTACATGGGC 396
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Db 373 GTCTGCTCTTATTGGAAGCATCGGCTATGCAACACAGTGATGAGCGCATCTCAAT 432
OY 397 ATGACTACACAGCATATGAGTGGGCGGTG-----ATTACTGATGCT 444
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 433 GTCTACTACATCATCATCTGCGCGTGGGCACTTCTTCTAAGCAACTGCTTCAACC 492
OY 445 TCTCGGCTCTATTAATCTGTGCTGCCATGAGACACGACGACAGAGAGAAAG 504
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Db 493 GAGTCCCCCTGGGCGACCTGTGGCATGATGGAACACAGAAATGTGTGAGTTCCAG 552
OY 505 CCGCTGTGCACGCGGCTACCTCAGCTAATCTTCTTACACCGCGGAG 564
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Db 553 AAGCTGAACTTACAGCACTACAGTATGTGCTCCGCAAGACCACTCCCGGTCAAG 612
OY 565 GAGTCTTCGAACGTAATGTATGAGACAGACAGTAAAGGCTGATGATGAGTGGG 624
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Db 613 GAGTCTTGGAAACGCGGGGCTTGG-----CTATATCTGATGAGTGAACACATCGGG 666
OY 625 CCGATCAAGCGCTGCTGCTGTGTGTTGGGCGTCTTGTCTGCTACTTCTGC 684
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Db 667 AACCTCCCATGGAGACTGTGCTCTCTGGGCGCTTGGACCATCTGCTACTTCTGC 726
OY 685 TTGTGGAAGAGTACAGAGTGTGGAAGGTGTGGTGACAGCTGTGGCCCGTAC 744
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Db 727 ATCTGGAAGGTACAGTCACTGGAAGGCTGTATGTCATGCAACTTCCCTAC 786
OY 745 GTGGTCTGCTGATCTGCTGGCGGAGAGGCTCAGCTTCCAGAGACGACGAGGCA 804
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 787 ATCATGCTGTGATCTCTCTATTCGAGGGGTCAAGTGTGCGGCTCGGAGAGCATC 846
OY 805 CGCTACTACCTTACCCAGAGTGGCAAAATTCGAAACTCTAAGTATGATGAGCG 864
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Db 847 AAGTTCTACTGTACCTGACCTCTCCGGGCTCTGTGATCCACAGGTGTGGTGTATGCT 906
OY 865 GCATCCAGATTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 924
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Db 907 GGAAGCGAGATCTTCTCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 966
OY 925 TACAAAGATTCACAAACACTGCTACAGAGAGCGGCTCATCTTCTTATCACTGC 984
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Db 967 TACAAACACTTAAACAAACACTGCTACAGAGGCTATATATGCTGCTGCTGCTGCT 1026
OY 985 TTGACCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1044
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Db 1027 GGCACCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1086
OY 1045 CAGAAAGAGCATGAGAGAGTGGCTCGAAGGCGCTGAGCTGTCTTCACTGTGAT 1104
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Db 1087 CAGGCGGTGCTATGCTGAGTGGCAAAATCAGAGTCTGAGCTGCTTCACTGCTGAT 1146
OY 1105 CCGAGGCGCATGCGACCATGACCGGCTCCGTTCTGCGCATATCTTCTCTCATG 1164
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Db 1147 CCGAAGGCTGCTATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1206

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OY 1165 CTTATTACCTGGGACTGTACAGTACTTTTGGAGTCTTGGAGCATCACCAGCTCTT 1224
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Db 1207 CTGATCTTCTGGGCTGTGACAGTACAGTCTTGTGTGTGGAGAGCTTGTATACACCG 1266
OY 1225 TCGACGAATATCTCGAGTGT-----AGCAGACATCGCGAAGTATTTGTGGCTGTA 1278
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Db 1267 GTTGACATGTACCCCAAGGCTCTCGCGGGGCTACCGGAGAACTGCTATCTGTGCGC 1326
OY 1279 CTGCTTCTGTCATCTATATTGGCGCTTGCCACACACACATATAGGTGTATACCTC 1338
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Db 1327 CTGTCATGCTCTTATTTCTTAAAGCGCTGTGATCTGACAGAGAGGAGCATGTACT 1386
OY 1339 GTAGACCTACTCAATGCTATGAGCC--TGATTTGGGATTTCTATGCTGATTTGCT 1395
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Db 1387 TTCACGCTTTTGTACTATACGCCCGCAGTGGCATGCTGCTTGTGTGGCATCTTT 1446
OY 1396 GAGCTGCGGCGTGTGCTGGGTGTATGGCGCTGACCGGTTCTGGAAGATGTGAGAGC 1455
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1447 GAGTGTGCTCATCGGCTGGGTGTATGGAAGTAAACAGTTCATGACAAATATGAGAGC 1506
OY 1456 ATGCTGGGACACACCCCTGATGTTCTGAGAGACCTTGTGTTACATCAGTCCGTA 1515
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1507 ATGATTGGATACCGGCGCAGCTGCTCATCAAGTGTGCTGGAAGTGTGACCCCTGG 1566
OY 1516 TTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1572
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Db 1567 ATCTGTGGGCGATCTTATCTTCTTCTGCTGCAAGTACMAAGCCTCAATACAAAT 1626
OY 1573 GAATACACCTATCCCTCATGCTATACACCGTAGCGTGGGTGATGACCGGACCACTC 1632
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1627 GTGTACACATATACCTGCTTGGGCTACCGCATGCTGCTGCTGCTGCTGCTGCTG 1686
OY 1633 TCGTCACTTCTCTTATATATCTACAACTGCTCATCATCTCTCGGCA 1681
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Db 1687 CTGTGATCCGCTGCTGATCTTCAAGCTGTGGAGAGACAGAGAGCA 1735

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RESULT 10
US-08-295-814E-1
Sequence 1, Application US/08295814E
Patent No. 5658786
GENERAL INFORMATION:
APPLICANT: Smith, Kelli E.
APPLICANT: Borden, Laurence A.
APPLICANT: Hartig, Paul R.
APPLICANT: Weinschank, Richard L.
TITLE OF INVENTION: DNA ENCODING TAURINE AND GABA
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/295,814E
FILING DATE: DECEMBER 19, 1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 40558-B-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2028 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: N
ANTI-SENSE: N
FRAGMENT TYPE: N-terminal
IMMEDIATE SOURCE:
LIBRARY: rat brain
CLONE: rB14b
FEATURE:
NAME/KEY: CDS
LOCATION: 126..1932
OTHER INFORMATION:
US-08-295-814E-1

Query Match 21.2%; Score 374.2; DB 1; Length 2028;
Best Local Similarity 53.8%; Pred. No. 1.7e-87;
Matches 844; Conservative 0; Mismatches 713; Indels 12; Gaps 3;

108 GCACCGGAGACCTGGCGGAAGAGAGAGTCCCTGCTGGCGGTGGGATTCGCACT 167
215 GGAACGGGAGCAATGGACCAAGATGAGTCTGACTCTGAGTGGGAGAGATCAT 274
168 GGATCTTGTAGCACTGGGATTCCTTACATCTGTTACCAAGATGAGGCGGT 227
275 TGGCTTAGGCACTGTGGAGTTCCCTATCTGCTACAAAGAGGGGAGGTGCTT 334
228 CCTATCCCGTACTGCGTTATGCTGCTTTGGCGGCGTGGCGCTTCTTCGGAAT 287
335 CTATTTCCTCATCTCATCTCTATTTACCTGTCGATCTCTGCTCTTCGAGAC 394
288 GGGCTGGGCGAGTACCAACCGCGCTGGCGCTCACTCTCGGAAGAGATCGCCGC 347
395 AGCCCTTGGCCAGTACACCAACGAGGAGCATCACAGCTGGAGGAATCTGCTCAT 454
348 GCTTAAAGTGTGCGCTATGCGCATCTGCATGATGACATCTACATGGGATGACTACAA 407
455 CTGAGAGGCGATCGGCTATGCTCAGAGATGATGCTGACGCTTCTCATGCTCTACTACAT 514
408 CACGATCATCGGATGGCGGTGATATACCTGATGCTTCTCGCGCTATTAACCTGT 467
515 CGTGTCTCGGCGGCGCTCTTCTTACCTCTTACAGAGCTTCAACACTGACCTCCCTG 574
468 GCTGCAATGACACGCTGCGAAGAGTGAACACGCGCGTGGACAGCGCGTCACTC 527
575 GGGTAGCTGACGCCACGAGTGAATPACGAAGACTGTGTGAGATTCAGAAACCAACAA 634
528 ACCTCAGACTAATCTTACTCTTCTACACCGCGGAGAGATCTTTCGAACGTAATGAT 587
635 TTCCCTGAATGTGACTTCTGAGAAATGCCACATCCCTGTCTCATCGAGTCTGGAGAGGCG 694
588 GGACAGCAGACAGTCTAACGCGCTGGATGATGAGTGGCGGCGATCAAGCGCTGCGTCT 647
695 AGTCTGAAGATCTCAGATGGCATCCAGCACCTGGGCGTCCCTGGCGTGGAGCTGTCT 754
648 GTGTGTGTGGGGCTTGTCTGCTGCTGCTACTCTCTTGGGAAGGAGTCAAGAGTGC 707
755 GTGCTCTGCTGCTGCTGATCATCTGCTATTTCTGCTGATCTGGAAAGGGGTCAGTCCAC 814
708 TGGCAAGTGTGTGGGTGACAGCTTGGCCCGTACGTTGCTGCTGATCTGCTGGC 767
815 AGGCAAGTGTGTGACTTACACAGCTACTTCCCTTACTCATGCTGAGTGTCTGTTCAT 874
768 GAGAGGCTCAGCGCTTCCAGAGGAGGAGGAGCATACGCTACTTACCTTACCCAGAGTG 827
875 CCGAGAGTGTACACTGCTGAGGAGCCGAGGAGTATCAGTTTACCTGATCCCAACAT 934
828 GCACAATTTGCAAACTCTAAGGATGATGAGCGGCGATCCAGATTTTCTTCTGCT 887

935 CACAGCTGTGGGATCCCGAGGTGTGATGATCGGGGACCAACGATCTTCTCTCT 994
888 CGGTCCGGGTTTGGGAACCTTACTGGGCTCTCCAGCTACAAAGATTCAACACAACTG 947
995 TGCCATCTGCTGGGTGCTTCTACAGGCTTGGGAGCTTACAAAGTACCAACAACTG 1054
948 CTACAGGAGCGGCTCATCTTCTTCTTCACTGCTTTCAGACAGCTTCTTCTGCTTT 1007
1055 CTACAGGAGCTGCGCGCTTCTTCTGATCTTCAACAGAGCAGCAGCTTCTGCGCGGTT 1114
1008 GCTCATTTTCTGCTTTTGGGCTACATGCGGCGAGCTTACAAACAGACATCAGAGCT 1067
1115 TGCCATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1174
1068 TGGCCTGAGAGCGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1127
1175 TGCTGATACAGGCGCTTGGCGCTGCGATTCATGCTTACCTTACCTTACCTTACCT 1234
1128 CGGCTCCGCTTCTTGGGCGATCATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1187
1235 TTTCTGCGCTTGTGAGGCGCTGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1294
1188 TACTTTTGGAGCTTGTAGGAGTACACAGGCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1247
1295 CCACTTGTGTGTAGAAAGCTTGTAGACAGCTGCTGAGTACATGATATCCCGGCTT 1354
1248 AGG-----CAGACATCCGAGATATTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1301
1355 CCGTAAAGAAACCGGAGGAGATTTCTATCTTCTATGCTGCTGCTGCTGCTGCTGCT 1414
1302 CGCTGCGCCACACACATAGCTGTGTATACCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1359
1415 CGGCTCATTTATGCTACAGAGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1474
1360 -GGCGCTGATGAGGATTTCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1418
1475 GGGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1534
1419 GTATGCTGCTGACCGGCTTCTGTAAGATGTGAGGACATGCTGAGGAGACACCGCTGAGTG 1478
1535 TTACGAGACCGAGCGCTTCTATGAACATTTGAAGATATGATTTGGATACAGCGGTGGCC 1594
1479 GTTCTGAGGAGCTGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1538
1595 TCTTATCAAAATCTGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1654
1539 CTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1595
1655 CTCCCTGATCAAAATACAGCGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1714
1596 TATCAGCTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1655
1715 GGATGCCCTGGGAGGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1774
1656 CTACAACT 1664
1775 CTACAACT 1783

RESULT 11
US-09-343-361-1
; Sequence 1, Application US/09343361
; Patent No. 6225115
; GENERAL INFORMATION:
; APPLICANT: Smith, Kellie E. et al
; TITLE OF INVENTION: DNA Encoding Taurine and GABA Transporters and Uses
; FILE REFERENCE: 40558-D
; CURRENT APPLICATION NUMBER: US/09/343,361
; CURRENT FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.0 - beta
; SEQ ID NO 1

LENGTH: 2028
 TYPE: DNA
 ORGANISM: Rattus norvegicus
 us-09-343-361-1

Query Match 21.28; Score 374.2; DB 4; Length 2028;
 Best Local Similarity 53.8%; Pred. No. 1.7e-87;
 Matches 844; Conservative 0; Mismatches 713; Indels 12; Gaps 3;

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OY 108 GCACGGGAGACCGCGGCGAAGAGGAGGACAGTCTCTCTGCGGTGGGAGATTCGCACT 167
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DB 215 GGAACGGGAGCAATGAGACCAAGAGAGAGTGTCTCACTGTCACTGGGAGAGATCAT 274
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OY 168 GGATCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 227
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DB 275 TGGCTTGGGAGACGCTGGAGAGTTCCCTATCTCTGCTACAGAGAGGAGAGGAGTGCCTT 334
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OY 228 CCGATCCCGTACTGCGCTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 287
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DB 335 CTCTATTCCTACCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 394
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OY 288 GGGGCTGGGCGAGTACCAACCGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 347
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DB 395 AGCCCTTGGCCAGTACCAACCAAGAGAGGATCATCAAGCTGAGAGAAATCTGCTCCAT 454
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OY 348 GCTTAAAGGTGCGGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTAT 407
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DB 455 CTGAGAGGAGATGGGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTAT 514
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OY 408 CAGCATATCGGATGAGGCGGTATATACCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 467
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DB 515 CGTGTCTGCGGCGGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 574
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OY 468 GCTCCAGTGGAGCGAGCTGGAGAGAGTGAACAGCGCGCTGGAGCGCGGCTGCACTC 527
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DB 575 GGGTACGTGACGACGAGAGTGAATPACAGAAACTGTGTGAGGTTCAGAAACCAACAA 634
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OY 528 ACCTCAGACTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 587
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DB 635 TTCCCTGATGTGATCTCTGAGATGCCACATCCCTGTCTATCGAGTTCTGGAGAGGCG 694
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OY 588 GGAGCAGCACAAGTCTAAGCGCTGATGATGATGATGATGATGATGATGATGATGATGAT 647
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DB 695 AGTCTGAGAGATCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 754
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OY 648 GTGTGTGTGGGCGCTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 707
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DB 755 GTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 814
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OY 708 TGGCAAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 767
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DB 815 AGGCAAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 874
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OY 768 GAGAGGCGTACGCTTCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 827
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DB 875 CCGAGGAGTAACTGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 934
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OY 828 GCACAAATGTGCAAACTAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 887
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DB 935 CACACGCTGTGGGATCCCAAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 994
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OY 888 CGGTCCGGGTTCGAGAACCTTACTGCGCTCTCCAGCTACACAAAGTTCAACACAACTG 947
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DB 995 TGGCATGTGCTGGGGTCCCTCAGGGCCCTGGGAGCTACAAAGTACCAACAACATG 1054
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OY 948 CTACAGGAGCGGCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1007
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1055 CTACAGGAGCTGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1114
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1008 CGTCAATTTCTCGGTTTGGGTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1067
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1115 TGCCATCTTCTCATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1174
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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OY 1068 TGGCTCGAAGGCGCTGAGTGTGTTCATGCTGTACCCGAGGAGCATCCGACCAATGAC 1127
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1175 TGCTGATPACAGGCGCTGGCCCTGGCATTCATCGCTTACCGCTGAGCTGTGGATGATACC 1234
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1128 CGGCTCCGCTGTGTGGGCGATCATCTTCTCTATGCTATATACCTGGAGCTTGACAG 1187
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1235 TTTCTCCCTTTGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1294
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1188 TACTTTTGAGCGCTTGAGCGGAGTACACAGGCGCTTTGGAGCAATATCCGAGGTT 1247
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1295 CCACTTTGTGTGTAGAAACCTCTGTACAGCGCTGTGTGAGATGATATCCCGGAGTT 1354
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1248 AGG-----CAGACATGCGAGAGTATTTGGGCTGTACTGCTGTTCTATCATATTG 1301
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1355 CCGTAAGAGAGACGGAGGAGGATTTCTCATCTCATGCTGTCTGCTCTCTCTCTCTCAT 1414
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1302 CGCTTCGCCACCAACATAGGTGTGTATACCTCGTAGACCTTCAATGTGTAT-- 1359
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1415 CGGCTCATATTGTCTACAGAGGCGGCGATGTAGTGTCCAGCTTTCAGCTACTATGTC 1474
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1360 -GGCCCTGGATTTGGGATTTCTATTCGCTGATTTTGTGAGGCTGCGGCGTGTGCTG 1418
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1475 GGCAGTGGAGTGTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1534
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1419 GTATGGCGTGCAGCGGTTCTCTGAGAGTGTGAGACCATGCTGGGAGCAACCCCTGATG 1478
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1535 TTACGAGCGCAGCGGCTCTCTATGACACATTTGAAGATATGTTGGATACAGCGCTGCGC 1594
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1479 GTTCTGAGAGACCTGTTGCTTACATCATGTCCTGATTTCTGCTGCTGCTGCTGCTG 1538
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1595 TCTTATCAAAATCACTGTGGGCTTTTTCACCGCAGCTGTGCTGCGCAACCTTCGTG 1654
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1539 CTCGCTTGTGACACGAGAGGATGCTGCGGCG--GGAATACACCTATCCCATGATGTC 1595
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1655 CTCCTGATCAAAATACACGCGACTGACCTACAAAGAGTACATATCATGATGATGAGG 1714
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1596 TATCAGGTAGGCTGGGTGATGACCGGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1655
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1715 GGATGCCCTGGGGGCTCTAGCTGTGCTCATGATGTCTGATGCTGCTGCTGCTGAGCAT 1774
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 1656 CTACAACT 1664
    ||| ||| |||
DB 1775 CTACAGCT 1783
    ||| ||| |||

```

RESULT 12
 PCT-US93-01959-1
 : Sequence 1, Application PC/TUS9301959
 : GENERAL INFORMATION:
 : APPLICANT: Smith, E. Kelli
 : APPLICANT: Borden, A. Laurence
 : APPLICANT: Hartig, R. Paul
 : APPLICANT: Weishank, L. Richard
 : TITLE OF INVENTION: DNA ENCODING TAURINE AND GABA
 : NUMBER OF SEQUENCES: 10
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Cooper & Dunham
 : STREET: 30 Rockefeller Plaza
 : CITY: New York
 : STATE: New York
 : COUNTRY: USA
 : ZIP: 10112
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patent Release #1.24
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: PCT/US93/01959
 : FILING DATE: 19930304
 : CLASSIFICATION:
 : ATTORNEY/AGENT INFORMATION:

NAME: White, John
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 40558A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-977-9550
TELEFAX: 212-664-0525
TELEX: 42523 COOP UI
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2028 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: N
ANTI-SENSE: N
FRAGMENT TYPE: N-terminal
IMMEDIATE SOURCE:
LIBRARY: rat brain
CLONE: rB14b
FEATURE:
NAME/KEY: CDS
LOCATION: 126..1932
OTHER INFORMATION:
PCT-US93-01959-1

Query Match 21.2% Score 374.2 DB 5 Length 2028:
Best Local Similarity 53.8% Pred. No. 1.7e-87:

Matches 844; Conservative 0; Mismatches 713; Indels 12; Gaps 3;

QY 108 GCAGCGGAGACGCTGGGCGAAGAGGACGAGTTCCTGCTGGCGGTGGTGGAGTTCGAGT 167
DB 215 GGAACGGGAGCAATGGACCAAGATGAGTTCGATGCGATGGGGGAGAGATCAT 274
QY 168 GGATCTTGATGATGGGCGATTCCTGATGATGATGATGATGATGATGATGATGATGAT 227
DB 275 TGGCTTAGGCAACGCTGGAGGTTCCCTATCTGCTACAAAGACGGGGAGGTGCTT 334
QY 228 CCTGATCCCGTACTGCGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 287
DB 335 CTTTATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 394
QY 288 GGGCTTGGGCGATGACCAACGCGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 347
DB 395 AGCCCTGGGCGAGTACCAACAGGAGGCGATCAGGCGGAGGAGGAGGAGGAGGAGGAGG 454
QY 348 GCTTAAAGGTGGGCTATGCGCATGCTGATGATGATGATGATGATGATGATGATGATGAT 407
DB 455 CTTGAGGGGAGTGGGCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 514
QY 408 CACGATCATGCGATGGGCGGTGTATACCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 467
DB 515 CGTTGCTGCTGGGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 574
QY 468 GCTGCCATGACACAGCTGCGCAAGAGTGAACAGCGCGCTGTCAGCGCGGCTGACCTC 527
DB 575 GGGTAGCTGAGCCACAGTGAATACAGAAACTGTGTGAGGTTCCAGAAACACCAACAA 634
QY 528 ACCTCAGACTAATGCTTACTTCTTACACCGCGCAAGAGAGTCTTTCAGACGATATGAT 587
DB 635 TTCCCTTAATGTGACTTCTGAGAAATGACATCCCTGTGCTCAAGTTCGAGGAGAGCG 694
QY 588 GGAGCAGCACAAGCTTAACGCGCTGATGATGATGATGATGATGATGATGATGATGATGAT 647
DB 695 AGTCTTAAGATCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 754
QY 648 GTGTGTGTTGGGGGCTTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 707
DB 755 GTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 814
QY 708 TGGCAAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 767
DB 815 AGGCAAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 874

QY 768 GAGAGGGCTACGCTTCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 827
DB 875 CCGAGAGGTACACCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 934
QY 828 GCACAATTTGCAAACTCTAAGATGATGATGATGATGATGATGATGATGATGATGATGAT 887
DB 935 CACAGCTGTGGGATGCCAGAGTGTGATGATGATGATGATGATGATGATGATGATGATGAT 994
QY 888 CGGTCCGGGCTTGGGAACCTTACTGCGCTCTCCAGTACACAAAGTTCAACAACAACTG 947
DB 995 TGCCATCTGCTGGGGGCTCAGCGGCTGGGAGCTACACAAAGTACCAACAACAACTG 1054
QY 948 CTACAGGAGCGGCTCATCTTCTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1007
DB 1055 CTACAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1114
QY 1008 CGTCAATTTCTCGGTTTGGGATGATGATGATGATGATGATGATGATGATGATGATGAT 1067
DB 1115 TGCCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1174
QY 1068 TGGCTTGAAGGCGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1127
DB 1175 TGCTGAATCAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1234
QY 1128 CGGCTCCGCTGTTGGGCGATCATCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1187
DB 1235 TTTCTCCGCTTGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1294
QY 1188 TACTTTTGAAGTCTTGAAGCATGACACAGGCTTCTTGAAGCATGATGATGATGATGAT 1247
DB 1295 CCAGTTTGTGTGTAAGAAAGCTGAGACAGGCGCTGCTGAGACATGATGATGATGATG 1354
QY 1248 AGG-----CAGCATGGCAAGTATTGTGCGCTGCTGCTGCTGCTGCTGCTGCTGCT 1301
DB 1355 CCGTAAGAGAACCGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 1414
QY 1302 CGCTCTCCCGACACACACATACGCTGCTGATACCTGCTGAGACCTACTCAATGATGAT 1359
DB 1415 CGGCTCATATATGCTACACAGGCGGCGATGATGATGATGATGATGATGATGATGATGAT 1474
QY 1360 -GGCCTTGATGCGATCTTATGCTGATGATGATGATGATGATGATGATGATGATGAT 1418
DB 1475 GGCAGAGGCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1534
QY 1419 GTATGCGCTGACCGGCTTCTGATGATGATGATGATGATGATGATGATGATGATGAT 1478
DB 1535 TTACGGAGCCAGCGCTTCTATGACAACTGATGATGATGATGATGATGATGATGATGAT 1594
QY 1479 GTTCTGGAGACGCTGCTGCTTATACATGATGATGATGATGATGATGATGATGATGAT 1538
DB 1595 TCTTATTAATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1654
QY 1539 CTCCTGCTTGGCACAGAGAGATGCTGCGCG--GGAATACACTTATCCCTGATGCTC 1595
DB 1655 CTCCTGATCAAAATATACCGGACCTGACCTCAACAACAAATACATATCATGATGAGG 1714
QY 1596 TATCAGCTAGCGCTGCTGATGACCGGACACCGCTGCTGCTGCTGCTGCTGCTGCTG 1655
DB 1715 GGATGCCCTGGGGGCTGCTTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1774
QY 1656 CTACAACT 1664
DB 1775 CTACAACT 1783

RESULT 13
US-08-295-814E-9
Sequence 9, Application US/08295814E
Patent No. 5658786
GENERAL INFORMATION:
APPLICANT: Smith, Kelli E.
APPLICANT: Borden, Laurence A.


```

PCT-US93-01959-9
: Sequence 9, Application PC/TUS9301959
: GENERAL INFORMATION:-
: APPLICANT: Smith, E. Kelli
: APPLICANT: Borden, A. Laurence
: APPLICANT: Hartig, R. Paul
: APPLICANT: Weinschenk, L. Richard
: TITLE OF INVENTION: DNA ENCODING TAURINE AND GABA
: TITLE OF INVENTION: TRANSPORTERS AND USES THEREOF
: NUMBER OF SEQUENCES: 10
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Cooper & Dunham
: STREET: 30 Rockefeller Plaza
: CITY: New York
: STATE: New York
: COUNTRY: USA
: ZIP: 10112
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentln Release #1.24
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US93/01959
: FILING DATE: 19930304
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: White, John
: REGISTRATION NUMBER: 28,678
: REFERENCE/DOCKET NUMBER: 40558A
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 212-977-9550
: TELEFAX: 212-664-0525
: TELEX: 422523 COOP UI
: INFORMATION FOR SEQ ID NO: 9:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1991 base pairs
: TYPE: NUCLEIC ACID
: STRANDEDNESS: both
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHEetical: N
: ANTI-SENSE: N
: IMMEDIATE SOURCE:
: LIBRARY: human brain
: CLONE: hcat-3
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 35..1930
: OTHER INFORMATION:
: PCT-US93-01959-9
:
: Query Match 21.1%; Score 372.6; DB 5; Length 1991;
: Best Local Similarity 54.6%; Pred. No. 4.3e-87;
: Matches 869; Conservative 0; Mismatches 694; Indels 30; Gaps 5;

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Db 407 GTTGGCCCTTATTGTAAGGCAATGGCTATGCAACACAGGTATGAGGCCCATCTGAAT 466
Oy 397 ATGACTACACACGATCATGCGATGGCGGTATTACTGTATC-----GCT 444
Db 467 GTGCTACTATCATCTATCCCTGGCATGGCCATTTTATTACTGAGCAATGCTTCACTAT 526
Oy 445 TGTGCGCGCTTAAACCTGTGCTGCCATGTGACACAGCTGGACAAACGATGGAGACAG 504
Db 527 GACCTACCTGGCTTACCTGTGGCATGAGTGAACACAGAAATGTGTGAGTTCCAG 586
Oy 505 CCGCTGTGACAGCGCGGTGACCTGACACTCACTAATCTTAATCTTACACCGGGAG 564
Db 587 AAATGATGATGAGCAACTACAGCATGTGTCTGTGAGAAATGCACACTCCCTGTATG 646
Oy 565 GAGTTCTTGCAACGTAATGATTGAGACACACAGCTTAAGCGCTGATGATGAGG 624
Db 647 GAGTTTGGGAGGACCGGGCTCTG-----CCATCTGTGACGGGATCGAGCATCGGG 700
Oy 625 CCGATCAAGCGGTGCGTGTGTGTGTGGGGGCTTTGCTCGTCTACTCTGC 684
Db 701 AACCTTGGCTGGAGCTGGCTTGTCTTGTGGACCTGGACCATCTTACTTCTGT 760
Oy 685 TTGTGAAAGAGTCAAGAGTGTGCGCAAGGTGATGAGTGTGAGCTGTGCGCCGTAC 744
Db 761 ATCTGGAAGGGAACCAAGTCTACAGAAAGGTGTATAGTGACTGACATTCCTCCCTAC 820
Oy 745 GTGTGCTGTGATTTGCTGTGGGAGAGCGGTACAGCTTTCAGAGACGAGGAGCAT 804
Db 821 ATCATGTGCTGTGATTCCTCTGATACAGAGGATGACCTGCGCGGCTTCAGAGGATC 880
Oy 805 CGGCTACTACCTTACCCAGAGTGGCACAATTCGAATTCGAAGTATGATGAGCGG 864
Db 881 AAGTTACTTGTATACCTGACCTCTCCGCTCTCCGACCCCAAGTCTGTGATGATGCT 940
Oy 865 GCATCCAGATTTTCTTCTGCTGTGCTCCGAGTTCGGAACCTTACGCGCTCTCCAG 924
Db 941 GGAAGCAGATCTTTTCTCTCTATGACATTTGCTGTGCTGTGACCGCTGTGGAAGT 1000
Oy 925 TACACAAGTTCAACAACAACACTGTACAGGAGCGGCTCATCACTTTCTTATCACTGC 984
Db 1001 TATTAACAATTATAACAACAACACTGTACAGGAGCTCATCACTTTCTTCCGTAAGC 1060
Oy 985 TTGACAGCTTCTCTGCTGTGCTTCTGATTTTCTCGGTTTGGGTCATGCGGCACGTT 1044
Db 1061 GGCACAGCTTCTGCTGTGAGGTGAGAGTCAAGGCCCGGCTGTATTTGCGTAC 1180
Oy 1045 CAGAACAAGAGCATGAGAGGTGGCTCGAAGGCCCTGAGCTGATGTTTCATGCTGTAC 1104
Db 1121 CAGGGGTACCATTTGCTGAGGTGAGAGTCAAGGCCCGGCTGTATTTGCGTAC 1180
Oy 1105 CCGAGGCGCATCGCACCATGACCGGCTCGGTGTTCTGGGCTCATCTTCTTCATG 1164
Db 1181 CCAAGGCGGTCAACAAGATGCTCTCCCGCTGTGGGCGACACTGTCTTTCATGATG 1240
Oy 1165 CTATATACCTGTGGAGCTTACAGTATTTTGGAGAGCTTACAGGACGACACAGGCTT 1224
Db 1241 CTCATCTTCTGGGCTGTGAGACGCACTTGTGTGTGTGGAAGCTGTGTGACCGCGTG 1300
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Db 1301 GTGACATGTAACCCCAAGGTTTTCGGAAGGGGTACCGGGGAGCTGTCATGCTAGCC 1360
Oy 1279 CTGCTTCTGTCATCTATATTTGGGCTGTGCGCCACACACATATGAGTGTATACCTC 1338
Db 1361 TTGTCTGTATCTCTCTATTTTGTGGGCTGTGTGTGTAACAGAGGCTGACATGATC 1420
Oy 1339 GTACACCTACCAATGTATATGAGCC---TGAATGCGAATTCATGCGGTATTTGCT 1395
Db 1421 TTCTGAGCTTTTGTACTCTATGCGGCAAGTGTGCTTCTTCTGCGGCACTTTT 1480
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Db	1481	GAGTGCATCTGCATTCGGCTGGGTGTATGGAAAGCAACCGGTTCTATGATTAACATTTGAAGAC	1540
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Db	1541	ATGATTTGGCTACCCGGCACCGCTCCCTCATTTAAAGTGGTGGCTGAGATCATAGACCCCTGGG	1600
Qy	1516	TTCTTGGTGGAGCTGTTCGTGTGTTCGCTTCTGGACACGAG--GAGATGCTGGGCGG	1572
Db	1601	ATCTGGGGGGGGAGATCTTCACTTCTTCTTATCAAGTACCAAGCACCATCAAGTACAAAC	1660
Qy	1573	GAATACACCTATCCCTCATGCTTATACCGTAGGCTGGGTGATGACCGGACCAACCGTTC	1632
Db	1661	ATTCACACCTACCCAGCGCTGGGGCTATGGGATTTGGCTGCATAGGCCCTGTCTCCATG	1720
Qy	1633	TCTGCAATCCCTCTTTACATTAATCTACAACTG	1665
Db	1721	CTCTGCATCCCGCTCTGTGATCTGCATACAGTG	1753

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rch completed: July 18, 2003, 15:55:49
time : 78 secs

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